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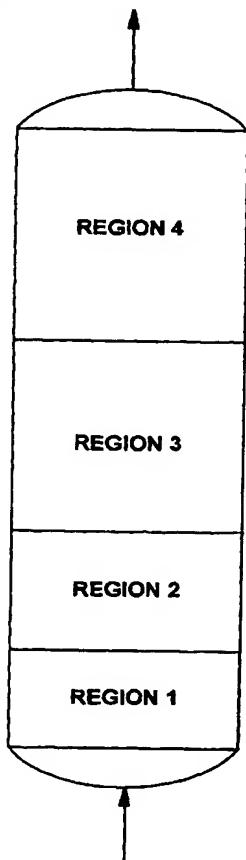
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(54) Title: PROCESS AND APPARATUS FOR HYDROGEN PURIFICATION



(57) Abstract: This invention discloses an optimum set of adsorbents for use in H₂-PSA processes. Each adsorbent bed is divided into four regions; Region 1 contains adsorbent for removing water; Region 2 contains a mixture of strong and weak adsorbents to remove bulk impurities like CO₂; Region 3 contains a high bulk density (>38 lb_m/ft³) adsorbent to remove remaining CO₂; and most of CH₄ and CO present in H₂ containing feed mixtures; and Region 4 contains adsorbent having high Henry's law constants for the final cleanup of N₂ and residual impurities to produce hydrogen at the desired high purity.

WO 2004/058630 A2



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Declarations under Rule 4.17:

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